

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Hitoshi SUMIYA, et al.

Serial No.: 09/462,876

Filed: January 18, 2000



Group Art Unit: 1755

Examiner: K. Group

For: CUTTING TOOL OF A CUBIC BORON NITRIDE SINTERED COMPACT

THE COMMISSIONER FOR PATENTS AND TRADEMARKS  
Washington, DC 20231

Dear Sir:

Transmitted herewith is an Amendment in the above identified application.



No additional fee is required.



Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement previously submitted.



A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.



Also attached:

The fee has been calculated as shown below:

	NO. OF CLAIMS	HIGHEST PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	FEE
Total Claims	10	10	0	\$18.00 =	\$0.00
Independent Claims	2	3	0	\$80.00 =	\$0.00
Multiple claims newly presented					\$0.00
Fee for extension of time					\$110.00
Total of Above Calculations					\$110.00

Please charge my Deposit Account No. 500417 in the amount of \$110.00. An additional copy of this transmittal sheet is submitted herewith.The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 500417, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

MCDERMOTT, WILL &amp; EMERY

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MAY 16 2001  
TC 1700 MAIL ROOM

Docket No.: 53674-015

PATENT

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9/C  
5/19/01  
B

AMENDMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

The following Amendment and Remarks are submitted in response to the Office  
Action dated January 12, 2001.

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MAY 16 2001  
TC 1700 MAIL ROOM

IN THE CLAIMS:

Please amend claims 5 through 8 as follows:

5. (Amended) The [milling cutter] cutting tool as claimed in claim 1, wherein the thermal conductivity of the cubic boron nitride sintered compact, at the said edge part, is 300 to 100 w/m-K.

6. (Amended) The [milling cutter] cutting tool as claimed in claim 1, wherein the thermal expansion coefficient of the cubic boron nitride sintered compact, at the said edge part is  $3.0 \text{ to } 4.0 \times 10^{-6}/\text{K}$  at a temperature ranging from 20°C to 600°C.